

International Symposium: “10 years Erlangen Institute of Biomaterials”

Date: **November 29th 2019**
9:00 h – 18.00 h

Venue: Bernhard-Ilschner-Hörsaal
H14 (0.61)
Martensstraße 5/7
91058 Erlangen
Germany

Our research activities

- Scaffolds for Tissue Engineering
Bioactive glasses and composites
- Biofabrication and 3D bioprinting
- Nanomaterials and bioactive coatings for
biomedical implants
- Drug delivery systems and antibacterial materials
Bone regeneration and vascularisation
- Cardiac regeneration and wound healing materials
Materials for dentistry
- Electrophoretic deposition and electrospinning
- Cell-biomaterial interactions



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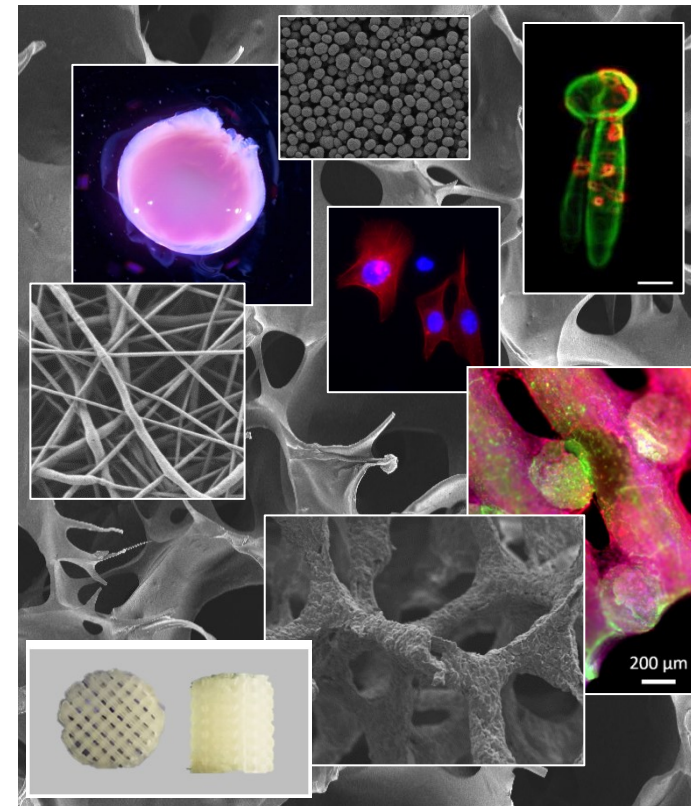
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Erlangen Institute of Biomaterials International Symposium



Program					
9.00-9.15h	Welcome and introduction Günter Leugering, Vice President, Research, University of Erlangen-Nuremberg, and Aldo R. Boccaccini, Head, Institute of Biomaterials, University of Erlangen-Nuremberg	11.30-11.40h	Bioactive coatings for biomedical implants Julieta V Rau, Italian National Research Council, Rome, Italy	15.05-15.15h	Extraction of hydroxyapatite and gelatin from black tilapia fish bone and scale Hasan Zuhudi Abdullah, Universiti Tun Hussein Onn, Batu Pahat, Malaysia
9.15-9.25h	Bioactive silica-based nanoparticles in magic potions for bone tissue engineering João Mano, University of Aveiro, Portugal	11.40-11.50h	Trends and challenges in the mathematical modeling of soft biomaterials Christian Hellmich, TU Vienna, Austria	15.15-15.25h	The Influence of Collagen Structure and Surface Biochemistry on Cell Function and Angiogenesis Nima Meyer, University of Cambridge, UK
9.25-9.35h	Advanced stem cell cultivation for cell based therapies Cornelia Kasper, University of Natural Resources and Life Sciences Vienna, Austria	11.50-12.00h	Relevance of colloidal processing in tissue engineering Begona Ferrari, Institute of Ceramics and Glass, Madrid, Spain	15.25-15.35h	Natural Polymers of bacterial origin and their use in Biomedical applications Ipsita Roy, University of Sheffield, UK
9.35-9.45h	Hyaluronan platform for musculoskeletal regeneration Mauro Alini, AO Foundation, Davos, Switzerland	12.00-12.10h	Dairy-derived biomaterials Timothy E L Douglas, Lancaster University, UK	15.35-15.45h	Overview of the activities of the Institute of Research for Ceramics (IRCER / CNRS, University of Limoges) in the field of biomaterials (implants for BTE and biosensors): Focus on additive manufacturing issues. Fabrice Rossignol, French National Centre for Scientific Research, Limoges, France
9.45-9.55h	How relevant are in vitro studies of bioactive glasses? Leena Hupa, Åbo Akademi Turku, Finland	12.10-12.20h	Mesoporous glass scaffolds upgraded with osteostatin and MSCs for bone defect treatment Antonio J Salinas, Complutense University of Madrid, Spain	15.45-16.00h	Bioplastics - an eco-friendly alternative Marwa Tallawi, Technical University of Munich, Freising, Germany
9.55-10.05h	Nano-structured bioactive glass embedding natural derived bioactive molecules Maria Elisa Galarraga, Goethe University Frankfurt am Main, Germany	12.20-12.30h	Promoting the International Students Exchange: the I.DEAR-Materials Program Flavio Soldera, University of Saarland	16.00-16.15h	Coffee Break
10.05-10.15h	Visualizing the evolution of crystallization and mineralization of bioactive glasses Delia S Brauer, Friedrich Schiller University Jena, Germany	12.30-12.40h	Alginate microcapsules incorporated with SPIONS for biomedical applications Maizlinda Izwana Idris, Universiti Tun Hussein Onn, Batu Pahat, Malaysia	16.15-16.30h	Electrophoretic deposition of chitosan/gelatin/Ag doped mesoporous bioactive glass nanoparticles on 316L SS Muhammad Atiq Ur Rehman, Institute of Space Technology, Islamabad, Pakistan
10.15-10.25h	EPD and characterization of PEEK-based composite coatings on titanium alloys for medical applications Tomasz Moskalewicz, AGH University of Science and Technology, Krakow, Poland	12.40-12.50h	Electrophoretic deposition coatings for energy conversion and storage systems Federico Smeacetto, Politecnico di Torino, Italy	16.30-16.45h	Microfluidic fabrication of micro/nanoparticles for controlled drug delivery Wei Li, University of Helsinki, Finland
10.25-10.35h	Electrospinning and beyond Dirk W. Schubert, University of Erlangen-Nuremberg, Germany	12.50-13.00h	Research of Biomaterials Lab OTH Regensburg Helga Hornberger, OTH Regensburg, Germany	16.45-17.00h	Colloidal gels and their application as biomaterial inks for 3D printing Mani Diba, Rice University, Houston, US
10.35-10.45h	Glasses and composites at GLANCE Monica Ferraris, Politecnico di Torino, Italy	13.00-14.15h	Lunch Break	17.00-17.15h	Drug-loaded polylactic acid microparticles integrated in gelatin scaffolds for tissue engineering applications Patcharakamon Nooeaid, Srinakharinwirot University, Bangkok, Thailand
10.45-11.15h	Coffee Break	14.15-14.30h	Acellular approach to in situ tissue engineering of vascular grafts Ranjana Rai, University College London, London, UK	17.15-17.30h	Organic-inorganic hybrid bone substitutes based on bioactive glass and polycaprolactone Lukas Gritsch, Institut National de Physique Nucléaire et de Physique des Particules, France
11.15-11.30h	Challenges in understanding and controlling the corrosion behaviour of biodegradable metals Sannakaisa Virtanen, University of Erlangen-Nuremberg, Germany	14.30-14.45h	Nanoparticles in regenerative medicine Christoph Alexiou, University of Erlangen-Nuremberg, Germany	17.30-18.00h	Discussion: Future challenges for biomaterials Ben Fabry, Raymund Horch, Felix B. Engel, Oliver Friedrich, University of Erlangen-Nuremberg and All participants
		14.45-14.55h	Electrophoretically deposited chitosan-bioactive glass coatings on Mg-based substrate Agnieszka Witecka, Institute of Fundamental Technological Research, Warsaw, Poland		
		14.55-15.05h	Active sol-gel materials for different applications Justyna Krzak, Wroclaw University of Science and Technology, Poland		